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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/788,976	02/27/2004	David McKay	WEAT/0372	WEAT/0372 6867	
75	90 02/16/2005		EXAM	INER	
WILLIAM B. PATTERSON MOSER, PATTERSON & SHERIDAN, L.L.P. Suite 1500			TSAY, F	TSAY, FRANK	
			ART UNIT	PAPER NUMBER	
3040 Post Oak I	· <del></del>	3672			
Houston, TX 77056			DATE MAIL ED: 02/16/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

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<u> </u>		Application No.	Applicant(s)				
10		10/788,976	MCKAY ET AL.				
,	Office Action Summary	Examiner	Art Unit				
		Frank S Tsay	3672				
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
THE - External extern	MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.1. SIX (6) MONTHS from the mailing date of this communication. In period for reply specified above is less than thirty (30) days, a reply operiod for reply is specified above, the maximum statutory period to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tin y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from to, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status —							
	Responsive to communication(s) filed on <u>27 File</u>						
′=							
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	ion of Claims						
5)⊠ 6)⊠ 7)⊠ 8)□ Applicat 9)□ 10)⊠	Claim(s) 1-45 is/are pending in the application 4a) Of the above claim(s) is/are withdray Claim(s) 20-27 is/are allowed.  Claim(s) 1-6,8,10,14,17 and 38-45 is/are reject Claim(s) is/are objected to.  Claim(s) are subject to restriction and/or ion Papers  The specification is objected to by the Examine The drawing(s) filed on 27 February 2004 is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine	wn from consideration.  ted.  or election requirement.  er.  e: a) accepted or b) objected or by objected drawing(s) be held in abeyance. Settion is required if the drawing(s) is objected or by objected or by objected or by objected drawing(s) be held in abeyance.	e 37 CFR 1.85(a). ejected to. See 37 CFR 1.121(d).				
Priority (	under 35 U.S.C. § 119						
a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea See the attached detailed Office action for a list	ts have been received. ts have been received in Applicat ority documents have been receiv u (PCT Rule 17.2(a)).	ion No ed in this National Stage				
Attachmen	• •	4) 🔲 Interview Summary	(PTO-413)				
2) 🔲 Notic 3) 🔯 Infor	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date <u>7/12, 10/13, 1/21</u> .	Paper No(s)/Mail D					

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Art Unit: 3672

#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 8 and 44 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The language "the sleeve" in claim 8 and the language "the drillable portion" in claim 44 all lack proper antecedent basis.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-6, 10, 14 and 17 are rejected under 35 U.S.C. 102(b) as being anticipated by Tibbitts '440.

The first body portion is anticipated by col. 5, line 30-41, where the drill bit is attached to a conventional drilling apparatus such as drill string or drill collar, the second body portion is met by bit body 10 which is partially receivable within the drill string or drill collar when so connected. The profiles formed on the outer surface of the second body portion are met by T-shape channel 120 (Fig. 9, for example), which is adapted to

and removable from the bit body from one end away from stop pin 130.

engaged with the cutting member 126 for maintaining the cutting during drilling. The at least two intersection faces in the profile are met by the combination of the vertical and horizontal surfaces in the T shaped channel. The first end and second ends of the cutting member are clearly sown in the same figure, which are attached to the bit body

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Claims 38-45 are rejected under 35 U.S.C. 102(b) as being anticipated by Rector, Jr. '482.

The downhole valve is anticipated by the valve assembly shown specifically in Figs 4 and 5, which comprises a first body portion 22 having a bore 28 disposed therethrough. An obstruction member is met by ball 40 and the retainer is anticipated by the valve body 22, which retains the balls 40, 50. The two seating surfaces for balls are clearly anticipated by Fig. 5. The claimed aluminum drillable portion fails to render patentable distinction since in claim 38 no such portion is defined.

Claims 38-45 are rejected under 35 U.S.C. 102(b) as being anticipated by Bailey et al '819.

The obstruction member is met by plug 24 in conjunction with the piston 22 having valve 56 therein (see Figs 2 and 3). The retainer is met by bolts 50, which retains the obstruction member and cooperated the obstruction member to provide select fluid communication through the bore (Fig. 2, col. 4, lines 6-41). The first and second seating seat is met by shoulders 16 and 52, and the drillable aluminum portion is considered lacking structural distinction over claim 38.

## Allowable Subject Matter

Claims 7, 9, 11-13, 15, 16, 18, 19 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim 8 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Claims 20-37 are allowed.

#### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. O'Leary, Bardwell, Jones, Pitifer, Wilson and Strong et al , all teach drilling apparatus having profiles means.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Frank S Tsay whose telephone number is (703) 308-2170. The examiner can normally be reached on Monday thru Friday, 7:30am-5:00 pm, 2nd Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David J Bagnell can be reached on (703)308-2151. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Frank S Tsay
Primary Examiner
Art Unit 3672

2/14/05